Amendments to the Specification:

Replace paragraph [0039] of the Substitute
Specification with the following corrected paragraph:

[0039]   To represent ε, an unsigned sixteen-bit
mantissa m is combined with an unsigned exponent e,
biased so that the actual represented value is $\varepsilon = 2^{2-}$
^{e}m. ~~$\varepsilon = 2^{2-e}m$.~~ Thus, the exponent is also the right
shift amount necessary to correct a 16b x 16b → 32b
multiply with ε as an operand. The two in the exponent
allows ε to range from 0 to 4 when m is interpreted as a
fractional amount and f ranges between zero and the
Nyquist frequency.